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QRSL1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18236a

Product Information

Application	WB, E
Primary Accession	Q9H0R6
Other Accession	Q4R7R9, NP_060762.3
Reactivity	Human
Predicted	Monkey, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37609
Calculated MW	57460
Antigen Region	129-156

Additional Information

Gene ID	55278
Other Names	Glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial {ECO:0000255|HAMAP-Rule:MF_03150}, Glu-AdT subunit A {ECO:0000255|HAMAP-Rule:MF_03150}, 6357 {ECO:0000255|HAMAP-Rule:MF_03150}, Glutaminyl-tRNA synthase-like protein 1 {ECO:0000255|HAMAP-Rule:MF_03150}, QRSL1 {ECO:0000255|HAMAP-Rule:MF_03150}
Target/Specificity	This QRSL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 129-156 amino acids from the N-terminal region of human QRSL1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	QRSL1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	QRSL1 {ECO:0000255|HAMAP-Rule:MF_03150}
Function	Catalytic subunit of the mitochondrial Glu-tRNA(Gln) amidotransferase complex GatCAB (Probable) (PubMed:19805282). GatCAB allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln) (By similarity). This subunit probably catalyzes the hydrolysis of the amido donor Gln, releasing ammonia that is sequestered within a channel in the GatCAB complex and made available to subunit B for downstream aminolysis of Glu-tRNA(Gln) (Probable). Required for the stability of GATB (By similarity).
Cellular Location	Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03150, ECO:0000269|PubMed:19805282}

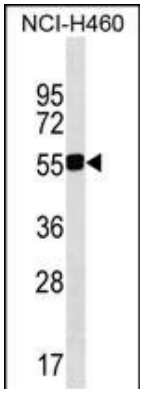
Background

The function of this protein remains unknown.

References

Nagao, A., et al. Proc. Natl. Acad. Sci. U.S.A. 106(38):16209-16214(2009)
Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)

Images



QRSL1 Antibody (N-term) (Cat. #AP18236a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the QRSL1 antibody detected the QRSL1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.